

- f) an insert substantially encapsulated within the body.
14. (Thrice amended) A high speed spindle motor for a disc drive comprising:
- a) a shaft;
 - b) a disc support member attached to the shaft;
 - c) a bearing disposed around the shaft;
 - d) a stator;
 - e) a monolithically formed body that substantially encapsulates the stator, the monolithically formed body surrounding the bearings and the shaft, the body being formed by injection molding and being made of a material having a coefficient of linear thermal expansion of less than 2×10^{-5} in/in $^{\circ}\text{F}$ throughout the range of 0-250 $^{\circ}\text{F}$; and
 - f) an insert substantially encapsulated within the body.
18. (Twice Amended) The high speed motor of claim 14 wherein the insert comprises an enhancement magnet.
20. (Twice amended) A motor comprising:
- a) a shaft;
 - b) a bearing surrounding the shaft;
 - c) windings acting as conductors; and
 - d) a monolithically formed body that substantially encapsulates at least a portion of the windings, wherein a thermoplastic material is injection molded to form the body, the material including aluminum oxide as a filler.
30. (Twice amended) The motor of claim 1 wherein the insert provides structural rigidity to the body.
31. (Twice amended) The motor of claim 1 wherein the insert enhances heat transfer away from the bearing and the stator.
34. (Twice amended) The motor of claim 1 wherein the insert enhances dampening of motor vibration.

35. (Twice amended) The motor of claim 1 wherein the insert enhances dampening of audible noise.

36. (Twice amended) The motor of claim 1 wherein the shaft is fixed to the body and the insert is positioned between the shaft and the bearing.

46. (Amended) The motor of claim 8 wherein the insert is rigidly fixed to the stator by the body and is connected to the stator only through the thermoplastic material.

50. (New) The motor of claim 20 wherein the thermoplastic material is filled with about 55% of the aluminum oxide.

51. (New) The motor of claim 20 wherein the thermoplastic material comprises polyphenyl sulfide.

52. (New) The motor of claim 20 wherein the thermoplastic material comprises nylon.

53. (New) The motor of claim 20 wherein the thermoplastic material comprises polyester.

54. (New) The motor of claim 20 wherein the thermoplastic material comprises a liquid crystal polymer.

55. (New) A motor comprising:

- a) a shaft having a rotational axis;
- b) a bearing allowing rotation about the rotational axis of the shaft;
- c) a stator comprising conductors;
- e) an insert; and
- f) a monolithically formed body that substantially encapsulates the stator conductors and the insert, wherein a thermoplastic material is injection molded to form the body and the body rigidly fixes the stator, shaft, bearing and insert with respect one another.

56. (New) The motor of claim 55 further comprising mounting features formed in the body to mount the motor to a device to be powered by the motor.

57. (New) The motor of claim 55 wherein the thermoplastic material has a coefficient of thermal conductivity of at least 0.7 watts/meter^{°K} at 23°C.

58. (New) The motor of claim 55 wherein the thermoplastic material has a coefficient of linear thermal expansion of less than 2×10^{-5} in/in °F throughout the range of 0-250°F.

59. (New) The motor of claim 1 wherein the shaft is attached to the insert.

REMARKS

The amendment does not involve new matter. The changes to the specification and amended claims from the previous version to the rewritten version are shown in Appendix A, with brackets for deleted matter and underlines for added matter. Pages 27-28 were amended to include a description of the type of ceramic and its level used in one particularly preferred thermoplastic material. This added information is not new matter as it is inherent in the original disclosure. In support thereof, attached as Appendix B is a copy of a facsimile from George Niznik, Vice President of LNP Technology. LNP is the supplier of the Konduit thermoplastic. This facsimile shows that the Konduit material described in the original specification has had 55% aluminum oxide since the product was developed in November 1996, well before the filing date of the present application and provisional application Serial No. 60/146,446 on which priority is based. It is further submitted that one of ordinary skill in the art at the time the application was filed could have analyzed Konduit OTF-212-11 and found that it contained 55% aluminum oxide. Hence this further description of the product does not include new matter. The additions to claims 1 and 14 are taken from original claim 8. New claims 50-54 are dependent on claim 20 and are supported by the paragraph amended above and the paragraph bridging pages 9 and 10. New claims 55-56 are patterned after claim 1. Claims 57 and 58 are patterned after the previous version of